

## APPENDIX A

### Logistic Regression Models for Prediction of Recurrence/Breast Cancer Related Death at 3 Years Versus Gene Expression for ER Positive Patients

Gene	Estimate	Standard Error	Wald $\chi^2$	df	p	Odds Ratio	AUC
IGF1R	-1.11666	0.36787	9.21398	1	0.00240	0.32737	0.76049
Bcl2	-1.14365	0.38782	8.69626	1	0.00319	0.31865	0.75432
CD68	1.21790	0.42788	8.10171	1	0.00442	3.38009	0.73827
CTSL	1.11967	0.40184	7.76360	1	0.00533	3.06384	0.72346
TP53BP2	-0.41978	0.15084	7.74503	1	0.00539	0.65719	0.70494
GATA3	-0.70697	0.26436	7.15178	1	0.00749	0.49314	0.71728
HNF3A	-1.23041	0.46015	7.15006	1	0.00750	0.29217	0.78395
BBC3	-0.50794	0.19352	6.88932	1	0.00867	0.60174	0.71728
RAD51C	-0.45778	0.18034	6.44377	1	0.01113	0.63269	0.69259
IGFBP2	-0.59853	0.25360	5.57008	1	0.01827	0.54962	0.68765
BAG1	-0.63195	0.27009	5.47443	1	0.01930	0.53156	0.71481
PR	-0.22837	0.09781	5.45125	1	0.01955	0.79583	0.70123
FBXO5	0.60283	0.25898	5.41813	1	0.01993	1.82728	0.68025
SURV	0.58496	0.25546	5.24323	1	0.02203	1.79492	0.70000
EstR1	-0.38303	0.17060	5.04122	1	0.02475	0.68179	0.70247
CD9	-0.88851	0.40121	4.90433	1	0.02679	0.41127	0.68642
RB1	-1.00252	0.46280	4.69242	1	0.03030	0.36695	0.69877
EPHX1	-0.19351	0.08939	4.68640	1	0.03040	0.82406	0.66790
CEGP1	-0.20725	0.09751	4.51710	1	0.03356	0.81282	0.68642
CCNB1	0.34234	0.16321	4.39998	1	0.03594	1.40824	0.65926
EstR1	-0.34950	0.16952	4.25052	1	0.03924	0.70504	0.67654
DR5	-0.30727	0.15068	4.15850	1	0.04143	0.73545	0.66914
TRAIL	-0.40222	0.19954	4.06326	1	0.04383	0.66883	0.62840
MCM2	0.67129	0.33840	3.93505	1	0.04729	1.95677	0.66049
Chk1	0.51401	0.25990	3.91133	1	0.04796	1.67198	0.65679
MYBL2	0.36020	0.18677	3.71924	1	0.05379	1.43362	0.65062
p27	-0.70117	0.36649	3.66032	1	0.05572	0.49601	0.61481
GUS	-0.73005	0.38616	3.57415	1	0.05869	0.48188	0.61852
P53	-0.69691	0.37911	3.37915	1	0.06603	0.49812	0.63580
cMet	0.32788	0.18110	3.27783	1	0.07022	1.38802	0.65185
HIF1A	0.59216	0.32829	3.25357	1	0.07127	1.80790	0.64444
EGFR	0.38832	0.21891	3.14665	1	0.07608	1.47450	0.62716
MTA1	-0.41099	0.23504	3.05766	1	0.08036	0.66299	0.61975
ErbB3	-0.48683	0.28175	2.98555	1	0.08401	0.61457	0.66173
RIZ1	-0.33804	0.19768	2.92412	1	0.08727	0.71317	0.63333
TOP2B	-0.83984	0.50015	2.81961	1	0.09312	0.43178	0.63210
EIF4E	-0.16244	0.09894	2.69534	1	0.10064	0.85007	0.63333
TS	0.34758	0.21452	2.62534	1	0.10517	1.41564	0.60247
STK15	0.37740	0.23629	2.55110	1	0.11022	1.45849	0.62716

## **APPENDIX B**

### **Predicted Probability Plots of Recurrence/Breast Cancer Related Deaths with Gene Expression Measurement for ER-positive Patients**

